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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

1

of

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Complete if Known

Application Number	unknown
Filing Date	
First Named Inventor	Furlan et al.
Group Art Unit	
Examiner Name	

Attorney Docket Number P014

U.S. PATENT DOCUMENTS

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Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	09/835,617
				Filing Date	4/10/2001
				First Named Inventor	Furlan et al.
				Group Art Unit	2182
				Examiner Name	
Sheet	1	of	13	Attorney Docket Number	P014

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	1	2,146,662		L.E.W. Van Albada	02/07/1939	
	2	2,244,235		W.A. Ayres	06/03/1941	
	3	2,304,434		W.A. Ayres	12/08/1942	
	4	2,628,529		L.E. Braymer	02/17/1953	
	5	2,654,286		J.M. Cesar	10/06/1953	
	6	3,203,328		H.P. Brueggeman	08/31/1965	
	7	3,205,777		A. Benner	09/14/1965	
	8	3,229,576		D.W. Rees	01/18/1966	
	9	3,692,934		Hamdon	09/19/1972	
	10	3,723,805		Scarpino et al.	03/27/1973	
	11	3,785,715		Mecklenborg	01/15/1974	
	12	3,832,046		Mecklenborg	08/27/1974	
	13	3,846,809		Pinzone et al.	11/05/1974	
	14	3,934,259		Krider	01/20/1976	
	15	3,998,532		Dykes	12/21/1976	
	16	4,012,126		Rosendahl et al.	03/15/1977	
	17	4,017,145		Jerie	04/12/1977	
	18	4,038,670		Seitz	07/26/1977	
	19	4,058,831		Smith	11/15/1977	
	20	4,078,860		Globus et al.	03/14/1978	

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Sheet 2 of 13

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Application Number 09/835,617

Filing Date 4/10/2001

First Named Inventor

Group Art Unit 3182

Examiner Name

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Sheet 2 of 13

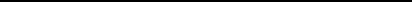
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		Number	Kind Code ² (if known)			
	25	4,157,218		Gordon et al.	06/05/1979	
	26	4,190,866		Lukner	02/26/1980	
	27	4,241,985		Globus et al.	12/30/1980	
	28	4,326,775		King	04/27/1982	
	29	4,395,093		Rosendahl et al.	07/26/1983	
	30	4,429,957		King	02/07/1984	
	31	4,463,380		Hooks, Jr.	07/31/1984	
	32	4,518,898		Tarnowski et al	05/21/1985	
	33	4,549,208		Kamejima et al.	10/22/1985	
	34	4,561,733		Kreischer	12/31/1985	
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	36	4,578,682		Hooper et al.	03/25/1986	
	37	4,593,982		Rosset	06/10/1986	
	38	4,602,857		Woltz et al.	07/29/1986	
	39	4,656,506		Ritchey	04/07/1987	
	40	4,661,855		Guick	04/28/1987	
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	42	4,728,839		Coughlan et al.	03/01/1998	
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	44	4,742,390		Francke et al.	05/03/1988	

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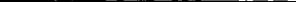
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<p>Substitute for form 1449A/PTO</p> <h2>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p><i>(use as many sheets as necessary)</i></p>				<p>Complete if Known</p> <table border="1"> <tr> <td>Application Number</td> <td>09/835,617</td> </tr> <tr> <td>Filing Date</td> <td>4/10/2001</td> </tr> <tr> <td>First Named Inventor</td> <td>Furlan et al.</td> </tr> <tr> <td>Group Art Unit</td> <td>2182</td> </tr> <tr> <td>Examiner Name</td> <td></td> </tr> <tr> <td>Attorney Docket Number</td> <td>P014</td> </tr> </table> <div style="text-align: right; margin-top: -20px;"> </div>		Application Number	09/835,617	Filing Date	4/10/2001	First Named Inventor	Furlan et al.	Group Art Unit	2182	Examiner Name		Attorney Docket Number	P014
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Sheet	3	of	13														

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		Number	Kind Code ² (if known)			
	45	4,751,660		Hedley	06/14/1988	
	46	4,754,269		Kishi et al.	06/28/1988	
	47	4,761,641		Schreiber	08/02/1988	
	48	4,772,942		Tuck	09/20/1988	
	49	4,797,942		Burt et al.	01/10/1989	
	50	4,807,158		Blanton et al.	02/21/1989	
	51	4,835,532		Fant	05/30/1989	
	52	4,858,002		Zobel	08/15/1989	
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	54	4,864,335		Corrales	09/05/1989	
	55	4,868,682		Shimizu et al.	09/19/1989	
	56	4,899,293		Dawson et al.	02/06/1990	
	57	4,901,140		Lang et al.	02/13/1990	
	58	4,907,084		Nagafusa	03/06/1990	
	59	4,908,874		Gabriel	03/13/1990	
	60	4,918,473		Blackshear	04/17/1990	
	61	4,924,094		Moore	05/08/1990	
	62	4,943,821		Gelphman et al.	07/24/1990	
	63	4,943,851		Lang et al.	06/24/1990	
	64	4,945,367		Blackshear	07/31/1990	

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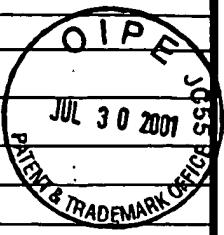
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Group Art Unit	2182														
Examiner Name															
Sheet	4	of	13	Attorney Docket Number	P014										



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Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
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	66	4,974,072		Hasegawa	11/27/1990	
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	69	5,021,813		Corrales	06/04/1991	
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	72	5,040,055		Smith	08/13/1991	
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	81	5,153,716		Smith	10/06/1992	
	82	5,157,491		Kassatly	10/20/1992	
	83	5,166,878		Poelstra	11/24/1992	

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Sheet 5 of 13

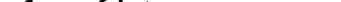
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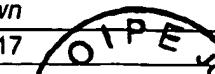
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	105	5,432,871		Novik	07/11/1995	
	106	5,444,476		Conway	08/22/1995	
	107	5,446,833		Miller et al.	08/29/1995	
	108	5,452,450		Delory	09/19/1995	
	109	5,473,474		Powell	12/05/1995	
	110	5,479,203		Kawai et al.	12/26/1995	
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	112	5,495,576		Ritchey	02/27/1996	
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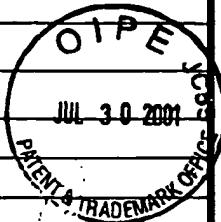
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	125	5,649,032	Burt et al.	07/15/1997	
	126	5,682,511	Sposato et al.	10/28/1997	
	127	5,686,957	Baker et al.	11/11/1997	
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	138	5,903,319	Busko et al.	05/11/1999	
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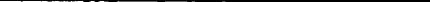
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Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	09/835,617
(use as many sheets as necessary)				Filing Date	4/10/2001
				First Named Inventor	Furlan et al.
				Group Art Unit	2182
				Examiner Name	
Sheet	8	of	13	Attorney Docket Number	P014

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(use as many sheets as necessary)				Filing Date	4/10/2001
				First Named Inventor	Furlan et al.
				Group Art Unit	2182
				Examiner Name	
Sheet	9	of	13	Attorney Docket Number	P014

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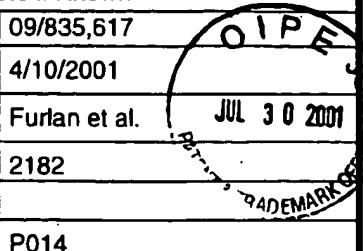
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Application Number	09/835,617
Filing Date	4/10/2001
First Named Inventor	Furlan et al.
Group Art Unit	2182
Examiner Name	

Sheet 10 of 13



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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
MS	163	GREENE, N., "Environment Mapping and Other Applications of the World Projections." Computer Graphics and Applications. November 1986. IEEE Computer Society. Vol.06. No.11. Pages: 21-29.	✓
MS	164	HECKBERT, P., "The PMAT and Poly User's Manual". Computer Graphics Lab. N.Y.I.T., February 18, 1983. Pages: 1-29.	✓
MS	165	HECKBERT, P., "Fundamentals of Textured Mapping and Image Warping. Master Thesis. Pages: 86. Dated: June 17, 1989.	✓
MS	166	REBIAI, M., MANSOURI, S., PINSON, F., and TICHIT, B., "Image Distortion From Zoom Lenses: Modeling and Digital Correction". International Broadcasting Convention. IEEE. Dated: July 1992.	✓
MS	167	CHARLES, JEFFERY R., "All-Sky Reflector with "Invisible" Camera Support". Images from 1988 RTMC Proceedings. Pages: 79-80.	✓
MS	168	ROGER W. SINNOTT, "Scientific Library Gleaning for ATMs". Sky & Telescope. August 1986. Pages: 186.	✓
MS	169	CHARLES et al., "How to Build and Use an All-Sky Camera." Astronomy. April 1987. Pages: 64-70.	✓
MS	170	DEUTSCHE, CLUDIA H., "One Camera That Offers Many Views". The New York Times v146, February 3, 1997, pages 02.	✓
MS	171	JOHNSON, COLIN R., "Imaging System Sees All". Electronic Engineering Times. December 23, 1996. Pages: 09.	✓
MS	172	SPICE, BRYON, "Panospheric Camera Expands Horizon". Pittsburgh Post Gazette, June 2, 1997, Pages: 03	✓

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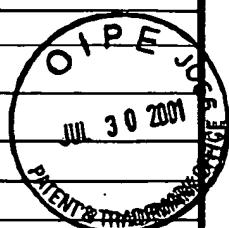
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	09/835,617
Filing Date	4/10/2001
First Named Inventor	Furlan et al.
Group Art Unit	2182
Examiner Name	



Sheet 11 of 13

Attorney Docket Number P014

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MS	173	CASTLEMAN, K., "Digital Image Processing". Prentice Hall. 1979. Pages: 110-135, 383-400,408.	
MS	174	CASTLEMAN, K., "Digital Image Processing". Prentice Hall. 1996. Pages: 125-127, 140-141.	
MS	175	SHAH, S. et al., "A Simple Calibration Procedure For Fish-Eye (High Distortion) Lens Camera. IEEE. 1994. Pages: 3422-3427.	
MS	176	Snyder, John. "Gnomonic Projection". Map Projections-A Working Manual. Pages: 164-168, 1987.	Technology Center 2100
MS	177	GREENE, N., and HECKBERT, P., "Creating Raster Omnimax Images From Multiple Perspective Views Using The Elliptical Weighted Average Filter". IEEE. 1986. Pages: 21-27.	
MS	178	FANT, K., "A Nonaliasing, Real-Time Spatial Transform Technique". IEEE. 1986. Pages: 71-80.	
MS	179	GREENE, WILLIAM B., "Qualitative Image Processing Techniques". Digital Image Processing, A Systems Approach. 2 nd Edition. 1989. Van Nostrand Reinhold. Pages: 92-112.	Technology Center 2600
MS	180	WOLBERG, GEORGE. Digital Image Warping (Introduction). 1990. IEEE Computer Society Press. Pages: 2.	
MS	181	FU, K.S. et al., "Low-Level Vision". Robotics: Control, Sensing, Vision, and Intelligence. 1987. McGraw Hill Inc., Pages: 313-315.	
MS	182	CARLBOM, INGRID et al. "Planner Geometric Projections and Viewing Transformations". Computing Surveys. Volume 10. No. 04. December 1978. Pages: 465-502.	
MS	183	ANDERSON, R.L., et al., "Omnidirectional Real time Imaging Using Digital Restoration". High Speed Photography SPIE. Volume 348. San Diego, CA. 1982. Pages: 807-814.	

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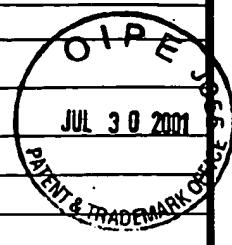
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13

Application Number	09/835,617
Filing Date	4/10/2001
First Named Inventor	Furlan et al.
Group Art Unit	2182
Examiner Name	

Attorney Docket Number P014



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MS	184	LAIKIN, MILTON. "Wide Angle Lens System". 1980. International Design Conference (OSA). SPIE. Volume 237. 1980. Pages: 530-532, 815-816.	JUL 31 2001 Technology Center 2100
MS	185	SHAH, SHISIR et al., "Depth Estimation Using Stereo Fish-Eye Lenses". IEEE. Department Of Electrical and Computer Engineering. University of Texas. 1994. Pages: 740-744.	✓
MS	186	TSAI, ROGER Y., "A Versatile Camera Calibration Technique for High Accuracy 3-D Machine Vision Using Off-the-Shelf TV Cameras and Lenses". IEEE. Journal of Robotics and Automation. Volume RA-3. No.04. August 1987. Pages: 323-344.	✓
MS	187	CHANG, YUH-LIN et al., "Calibrating a Mobile Camera's Parameters". Pattern Recognition. Volume 26. No. 01. Dated: 1983. Pages: 75-88.	✓
MS	188	WENG, JUYANG. "Camera Calibration With Distortion Models and Accuracy Evaluation." IEEE. Transactions On Pattern Analysis and Machine Intelligence. Volume 14. No. 10. October 1992. Pages: 965-980.	✓
MS	189	LENZ, REIMER K. et al., "Techniques for Calibration of the Scale Factor and Image Center for High Accuracy 3-D Machine Vision Metrology". IEEE. Transaction on Pattern Analysis and Machine Intelligence. Volume 05. No. 05. September 1988. Pages: 713-720.	✓
MS	190	NOMURA, YOSHIIKO, et al., "Simple Calibration Algorithm for High-Distortion Lens Camera". IEEE. Transaction on Pattern Analysis and Intelligence Machine. Volume 14. No.11. November 1992. Pages: 1095-1099.	✓
MS	191	Lee, Martin., Telerobotics International, Inc. "Optimizing The Camera And Positioning System For Telerobotic Worksite Viewing"	✓
MS	192	MIYAMOTO, K., "Fish Eye Lens". JOSA. Vol.54. Pages: 1060-1061. Dated: August 1964.	✓

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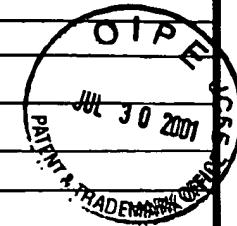
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				Filing Date	4/10/2001
				First Named Inventor	Furlan et al.
				Group Art Unit	2182
				Examiner Name	
Sheet	13	of	13	Attorney Docket Number	P014



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MP	193	Defendant's IPT's Composite Exhibit List, Civil Action of Interactive Pictures Corporation, F/K/A Omnidview, Inc. v. Infinite Pictures, Inc. and Bill Tillman. Case No. 3-96-849. Filed: January 05, 1998 in U.S.D.C., Eastern District Of Tennessee. Pages: 20.			
MS	194	VERITY, JOHN W. (edited by): Information Processing. Business Week. Page: 134E. Dated: July 13, 1991.			JUL 31 2001
MP	195	MARBACH, WILLIAM D. (edited by): Developments To Watch. Business Week. Page: 83. Dated: September 26, 1988.			
MP	196	CARNEVALE, MARY LU. Video Camera Puts The Viewer in Control. Wall Street Journal. Dated: November 25, 1992.			
NY	197	Popular Science. Electronic Panning Camera System. Pages: 36-37. Dated: September 1992.			
NY	198	TULLOCH, MARTHA. "New Video Camera Lets Viewers Choose Views" Photonics Spectra. Pages: 18-20. Dated: October 1992.			
NY	199	FISHER, TIMOTHY E., "A Programmable Video Image Remapper. SPIE> Vol. 938. Pages: 122-128. Dated: 1988.			
NY	200	LIPPMAN, ANDREW. Movie-Map: An Application Of The Optical Videodisc To Computer Graphics. Pages: 43. Dated: 1980.			
NY	201	YELICK, STEVEN. Anamorphic Image Processing. Pages: 1-37, Including Acknowledgement Page. Dated: 1980.			
NY	202	CHEN, SHENCHANG ERIC. "Quick Time VR-An Image-Based Approach To Virtual Environment Navigation. Pages: 39. Dated: 1995.			
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